

CLAIMS

1. An antioxidant for an organic material,
characterized in that
the antioxidant comprises one or more compounds, selected independently from each other from the group comprising complexing agents, UV absorbers/quenchers, radical scavengers, peroxide decomposing agents and reducing agents.

2. An antioxidant for an organic material according to claim 1,
characterized in that
the complexing agent is selected from the group comprising aminopolycarboxylic acids and polyaminocarboxylates, phosphonates, phosphates and polyphosphates, polyelectrolytes, macrocycles, polysaccharides and ether derivatives thereof, hydroxycarboxylates and alkanol amines, N-salicylidene ethyl amine, N,N'-disalicylidene ethylene, triethylene diamine, lecithin, thiadiazole, imidazole and pyrazole derivatives, phosphoric acid derivatives, silicic acid derivatives and inositol derivatives.

3. An antioxidant for an organic material according to claim 1,
characterized in that
the UV absorber/quencher is preferably selected from the group comprising hydroxyphenylbenzotriazoles, hydroxybenzophenones, formamidine, benzylidene camphor, phenolic antioxidants, sterically hindered phenols and sterically hindered amines.

4. An antioxidant for an organic material according to claim 1,
characterized in that
the radical scavenger is selected from the group comprising phenol derivatives, aromatic amines, alkylated diphenyl amines, dihydroquinoline derivatives, divalent sulfur derivatives, trivalent phosphorus compounds.

5. An antioxidant for an organic material according to claim 1,
characterized in that
the peroxide decomposing agent is selected from the group comprising halides,
pseudohalides and enzymes.
6. An antioxidant for an organic material according to claim 1,
characterized in that
the reducing agent is selected from the group comprising hydrogen, reductors,
thiocarbamide, hydroxyacetone, borohydrides, boranes, sulfur dioxide, pyrosulfites,
dithionites, hydrogen siloxanes and reductive plasma.
7. An antioxidant for an organic material according to any one of the claims 1 to 6,
characterized in that
the antioxidant additionally comprises one or more deacidifying agents.
8. An antioxidant for an organic material according to claim 7,
characterized in that
the deacidifying agent comprises an earth alkali compound.
9. An antioxidant for an organic material according to any one of the claims 1 to 8,
characterized in that
the organic material is paper.
10. A method for treating organic material,
characterized in that
the organic material is brought in contact with an antioxidant according to any one of the
claims 1 to 9 for 1 minute to 72 hours at a temperature of 0 to 100°C a pressure of 0.001
to 300 bar in an atmosphere that is low in oxygen.

11. A method for treating organic material according to claim 10,
characterized in that
the organic material is brought in contact with an antioxidant according to any one of the claims 1 to 6 for 1 minute to 72 hours at a temperature of 0 to 100°C a pressure of 0.001 to 300 bar in an atmosphere that is low in oxygen, the organic material being treated with one or more deacidifying agents prior to or following the contact.
12. A method for treating organic material according to claim 11,
characterized in that
the deacidifying agent comprises an earth alkali compound.
13. A method for treating organic material according to any one of the claims 10 to 12,
characterized in that
the organic material is paper.
14. A method for treating organic material according to any one of the claims 10 to 13,
characterized in that
the organic material consists of documents and records.
15. A use of an antioxidant according to any one of the claims 1 to 9 for treating organic material.
16. A use according to claim 15,
characterized in that
the organic material is paper.
17. A use according to claim 15 or 16,
characterized in that
the organic material consists of documents and records.